# Weather update HALO-(AC)<sup>3</sup>

Friday, 2022-03-25, 09:00 LT

### Surface wind development and precipitation

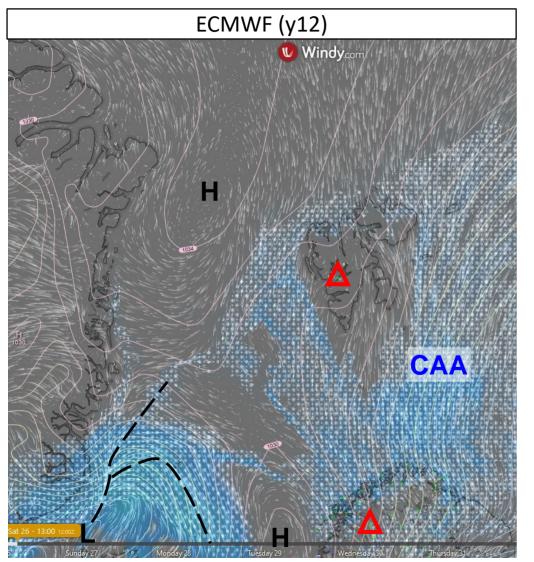
2022-03-24 12 UTC: 48 – 96h

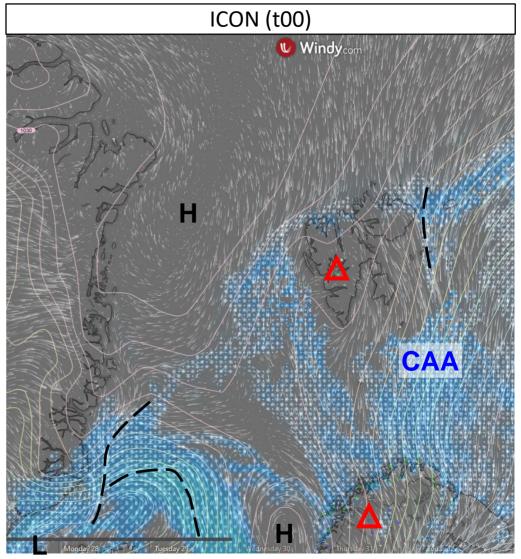
2022-03-25 00 UTC: 36 – 84h

**CAA: Cold Air Advection** 

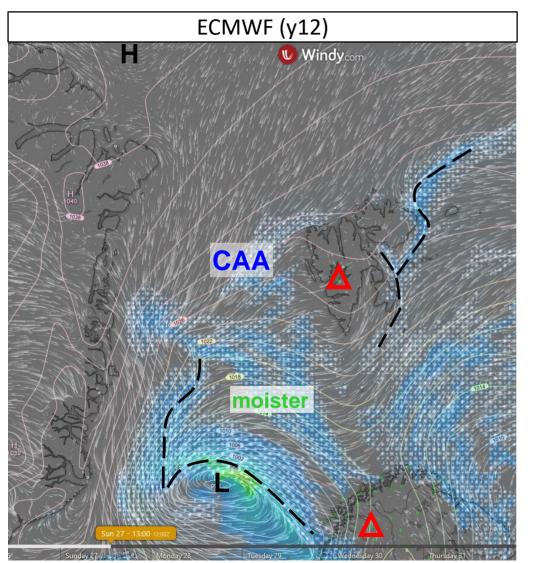
**WAA: Warm Air Advection** 

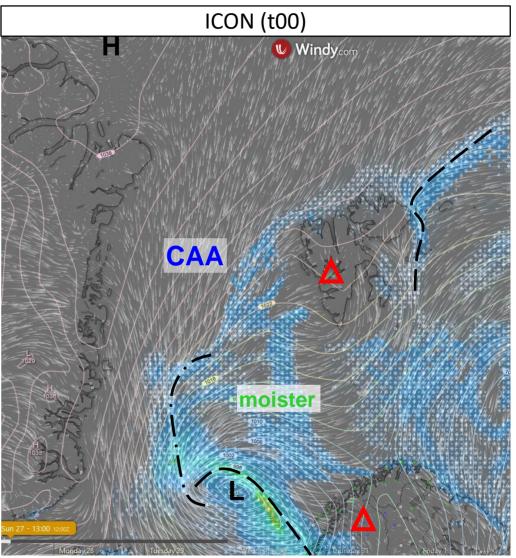
### Saturday, 2022-03-26 12 UTC



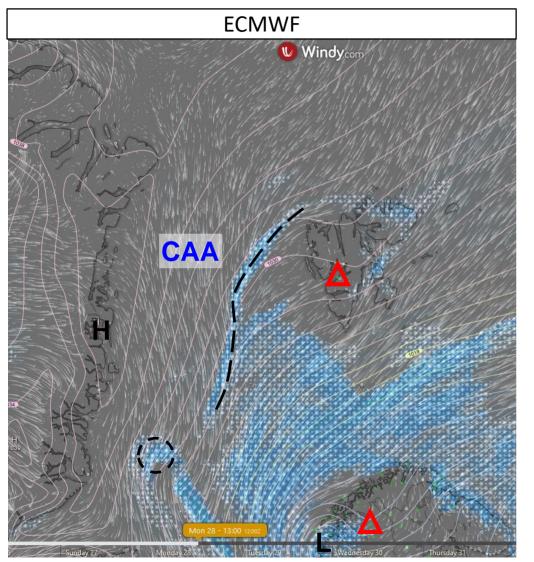


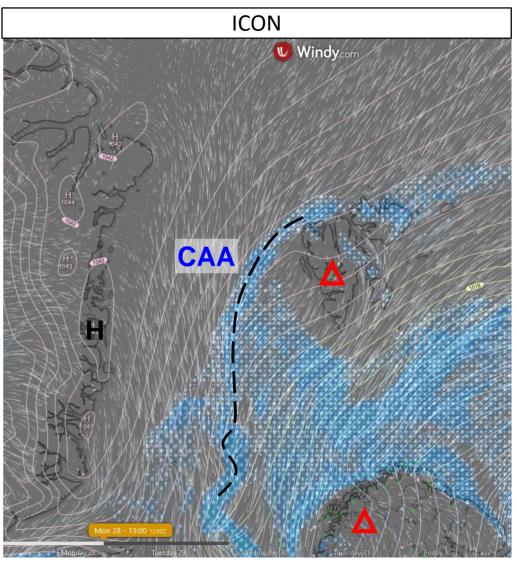
### Sunday, 2022-03-27 12 UTC





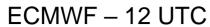
### Monday, 2022-03-28 12 UTC

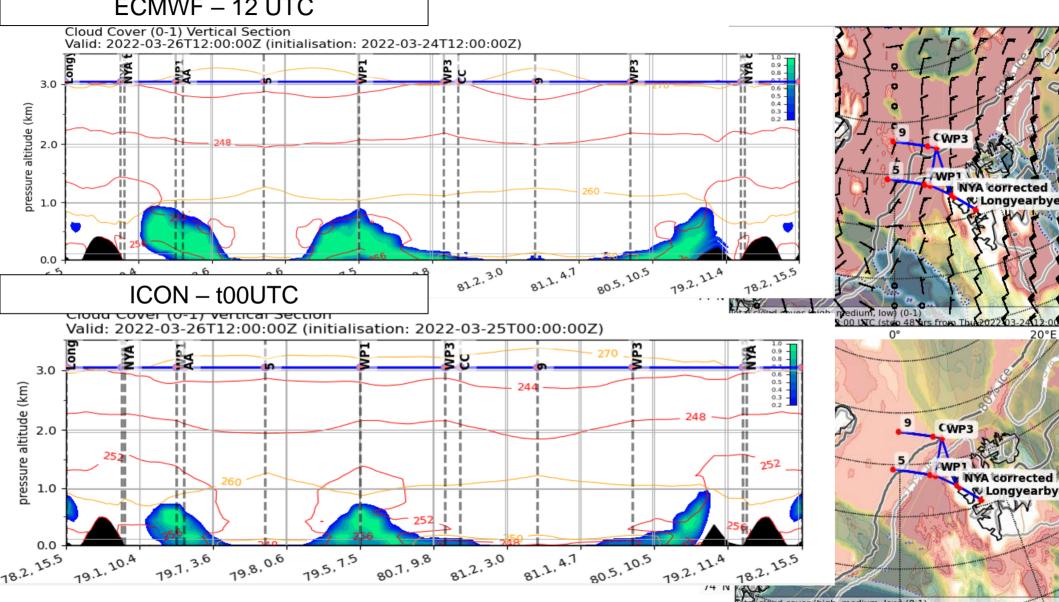




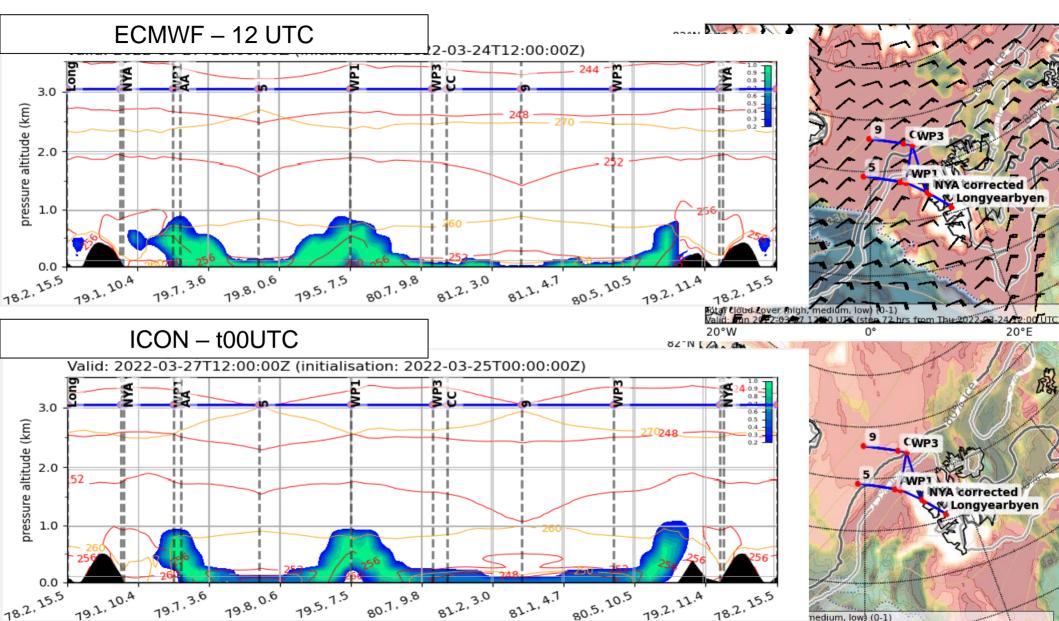
Cloud cross-sections: Flight Track P5
ECMWF & ICON

Saturday, 2022-03-26 10 UTC, Clouds

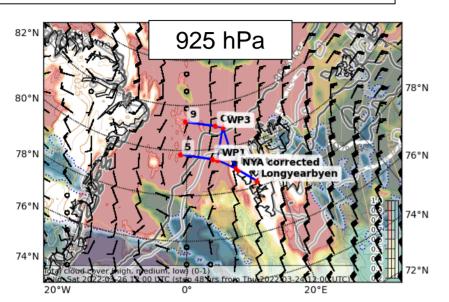


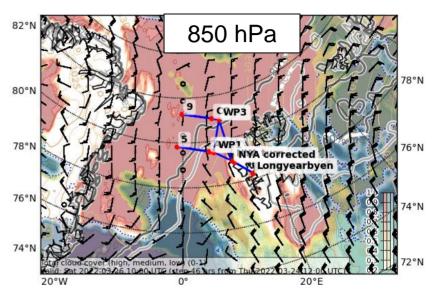


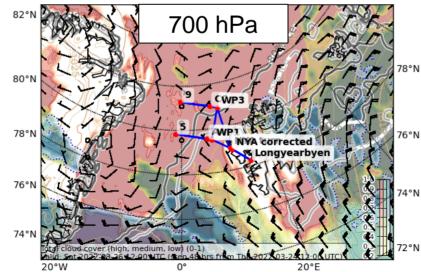
### Sunday, 2022-03-27 12 UTC, Clouds



## Saturday, 2022-03-26 12 UTC Total Cloud Cover and horizontal wind (925, 850, 700 hPa



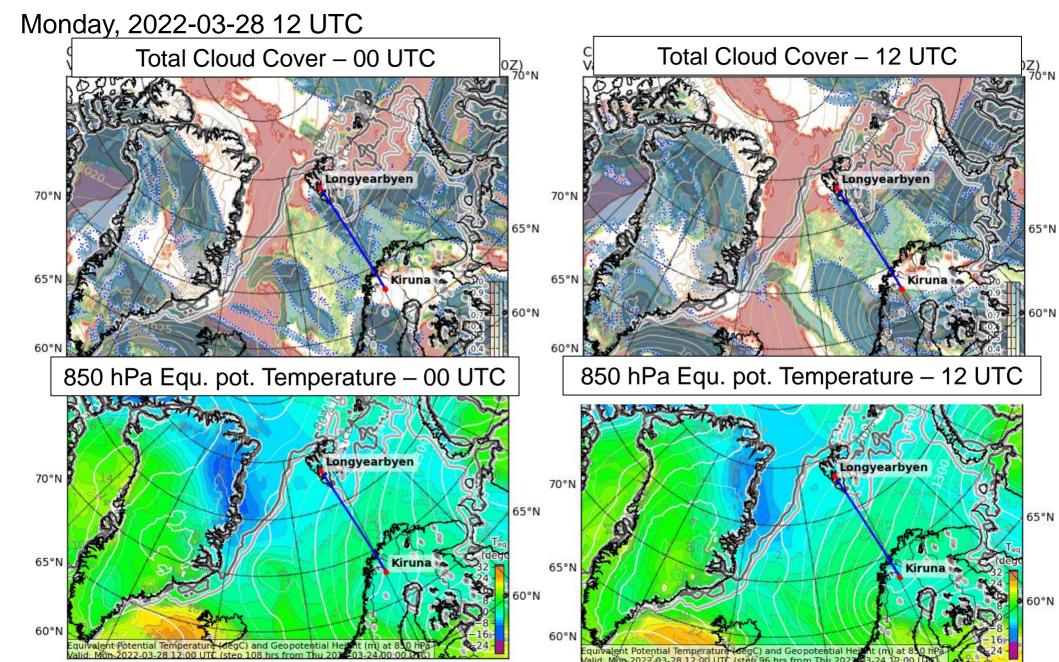




### Forecast comparison (TCC, ThetaE850hPa)

ECMWF 2022-03-24 00 UTC and 12 UTC Sunday, 2022-03-27 12 UTC Total Cloud Cover – 12 UTC Total Cloud Cover – 00 UTC Longyearbyen Longyearbyen 70°N 850 hPa Equ. pot. Temperature – 12 UTC 850 hPa Equ. pot. Temperature – 00 UTC Longyearbyen Longyearbyen 70°N 70°N 65°N

Valid: Sun 2022-03-27 12:00 UTC (step 72 hrs from Thu 20



Airport meteograms & local weather at Svalbard

Longyearbyen. ECMWF – y12 UTC Freitag 25 Samstag 26 Sonntag 27 Montag 28 Dienstag 29 Mittwoch 30 Wolken, Reger mm 500h 5km FL180 500h 5km Regen 🤤 700h 3km FL100 Konvekt. Regen 🗭 800h 2km 6400ft 900h 900r 💍 Basisdaten 🥻 Wellen 💆 Wind 🔝 Meteog. 🦻 Airgram GFS ICON METEOBLUE Vergleichen ICON - t00 UTC Freitag 25 Sonntag 27 Montag 28 Dienstag 29 Samstag 26

1-Std Vorhersage

Windböen

Druck hPa 1020 1021 1020 1027 1026 1027 1024 1024 1024 1027 1027 1027 1026 300h 9km FL300 300h 9km FL300 500h 5km FL180

Wolken, Reger mm 500h 5km FL180 00h 3km FL100 700h 3km FL100 Konvekt, Regen 800h 2km 6400ft 900h 900m 3000ft **Summary** 

### Summary Weather Update 2022-03-25 9:00 LT

### Saturday, 2022-03-26

- East of Greenland high pressure system → narrow northerly flow over Fram Strait
- CCA weakens, CAA more located east of Svalbard

### Sunday, 2022-03-27

- Low pressure system coming from south disturbs the northerly flow → flow more northwesterly
- Low brings moisture → weak CAO

### Monday, 2022-03-28

- Polar low weakens for ECMWF
- no polar low in ICON
- Advection of aged warm air from Pacific through Central Arctic